

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
l4 and l20	1

Database:

[US Patents Full-Text Database](#)
[US Pre-Grant Publication Full-Text Database](#)
[JPO Abstracts Database](#)
[EPO Abstracts Database](#)
[Derwent World Patents Index](#)
[IBM Technical Disclosure Bulletins](#)

Refine Search:**Clear****Search History****Today's Date: 7/24/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l4 and l20	1	L48
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l3 and l20	1	L47
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l2 and l20	1	L46
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l39 and repository	4	L45
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"macro handler"	1	L44
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l39 and l42	7	L43
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and l41	25	L42
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and "extend\$"	25	L41
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l39 and "extend\$"	7	L40
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l38 and "keyword"	14	L39
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and syntax	38	L38
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"macro language"	166	L37
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6243860.uref.	0	L36
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6243860.pn.	2	L35
USPT	5832264.pn.	1	L34

USPT	5913059.pn.	1	L33
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	114 and l21	5	L32
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	113 and l21	3	L31
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	112 and l21	0	L30
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	111 and l21	2	L29
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	115 and l11	1643	L28
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	115 and l21	5	L27
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l25 and keywords	1	L26
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and retriev\$ near code	4	L25
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language near extend\$	1	L24
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language near extend	1	L23
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and extensible	11	L22
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l20 and keywords	17	L21
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and syntax	64	L20
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l18 and keywords	18	L19
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and expression	67	L18
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language	273	L17
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language near expression	1	L16
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/\$)!.CCLS.))	11100	L15
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((717/\$)!.CCLS.))	2810	L14
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((703/\$)!.CCLS.))	3997	L13
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((725/\$)!.CCLS.))	3334	L12
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((345/\$)!.CCLS.))	43184	L11
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((345/348)!.CCLS.))	2	L10
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((703/3)!.CCLS.))	137	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((717/8)!.CCLS.))	272	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((717/3)!.CCLS.))	227	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/100)!.CCLS.))	780	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/2)!.CCLS.))	856	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/526)!.CCLS.))	200	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/513)!.CCLS.))	428	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/500)!.CCLS.))	253	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/1)!.CCLS.)	1094	L1

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
l39 and l42	7

Database:

[US Patents Full-Text Database](#)
[US Pre-Grant Publication Full-Text Database](#)
[JPO Abstracts Database](#)
[EPO Abstracts Database](#)
[Derwent World Patents Index](#)
[IBM Technical Disclosure Bulletins](#)

Refine Search:**Clear****Search History****Today's Date: 7/24/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l39 and l42	7	L43
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and l41	25	L42
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and "extend\$"	25	L41
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l39 and "extend\$"	7	L40
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l38 and "keyword"	14	L39
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and syntax	38	L38
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"macro language"	166	L37
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6243860.uref.	0	L36
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	6243860.pn.	2	L35
USPT	5832264.pn.	1	L34
USPT	5913059.pn.	1	L33
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l14 and l21	5	L32
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l13 and l21	3	L31
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l12 and l21	0	L30
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l11 and l21	2	L29

USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l15 and l11	1643	L28
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l15 and l21	5	L27
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l25 and keywords	1	L26
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and retriev\$ near code	4	L25
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language near extend\$	1	L24
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language near extend	1	L23
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and extensible	11	L22
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l20 and keywords	17	L21
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and syntax	64	L20
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l18 and keywords	18	L19
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l17 and expression	67	L18
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language	273	L17
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	macro near language near expression	1	L16
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/\$)!.CCLS.))	11100	L15
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((717/\$)!.CCLS.))	2810	L14
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((703/\$)!.CCLS.))	3997	L13
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((725/\$)!.CCLS.))	3334	L12
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((345/\$)!.CCLS.))	43184	L11
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((345/348)!.CCLS.))	2	L10
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((703/3)!.CCLS.))	137	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((717/8)!.CCLS.))	272	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((717/3)!.CCLS.))	227	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/100)!.CCLS.))	780	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/2)!.CCLS.))	856	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/526)!.CCLS.))	200	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/513)!.CCLS.))	428	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((((707/500)!.CCLS.))	253	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/1)!.CCLS.)	1094	L1

WEST☐ Generate Collection

L20: Entry 63 of 64

File: DWPI

May 8, 2000

DERWENT-ACC-NO: 2000-364943
DERWENT-WEEK: 200037
COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Extensible macro language providing method for use in computer language processors, involves retrieving code associated with keywords representing new macro command, which is then executed

INVENTOR: DEFFLER, T A; MINTZ, E

PATENT-ASSIGNEE: COMPUTER ASSOC THINK INC (COMPN)

PRIORITY-DATA: 1998US-0104682 (October 16, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 200013152 A	May 8, 2000	N/A	000	G06F017/30
WO 200023919 A1	April 27, 2000	E	031	G06F017/30

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HU ID IL IS JP KE KG KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU 200013152A	October 15, 1999	2000AU-0013152	N/A
AU 200013152A		WO 200023919	Based on
WO 200023919A1	October 15, 1999	1999WO-US24115	N/A

INT-CL (IPC): G06F 17/30

RELATED-ACC-NO: 2000-350445;2000-364925 ;2000-364933 ;2000-364941

ABSTRACTED-PUB-NO: WO 200023919A
BASIC-ABSTRACT:

NOVELTY - The providing method involves determining one or more keywords representing new macro command not previously defined in the macro language, in the analyzed macro language expression, based on preset syntax of the macro language. Then, code associated with the keyword is retrieved from registry of keywords and the code associated with keyword is executed.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the system for providing extensible macro language.

USE - For providing extensible macro language in computer language processors, word processors.

ADVANTAGE - Extensible macro language is enabled to process the new macro commands, by recognizing the new macro commands unknown to the language and associating the new macro commands with procedure calls stored in registry, thereby allowing dynamic extension of macro language.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of extensible macro language.

ABSTRACTED-PUB-NO: WO 200023919A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/2

DERWENT-CLASS: T01

EPI-CODES: T01-F01; T01-J05B3;

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 4 of 4 returned.**☐ 1. Document ID: US 4916610 A

L25: Entry 1 of 4

File: USPT

Apr 10, 1990

US-PAT-NO: 4916610

DOCUMENT-IDENTIFIER: US 4916610 A

TITLE: Multilanguage software integration through preprocessing

DATE-ISSUED: April 10, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bapat; Subodh	Fort Lauderdale	FL	N/A	N/A

US-CL-CURRENT: 717/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-----------	-------

☐ 2. Document ID: US 4723212 A

L25: Entry 2 of 4

File: USPT

Feb 2, 1988

US-PAT-NO: 4723212

DOCUMENT-IDENTIFIER: US 4723212 A

TITLE: Method and apparatus for dispensing discount coupons

DATE-ISSUED: February 2, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mindrum; Thomas	Fairfield	CT	N/A	N/A
Off; George	Danville	CA	N/A	N/A
Scroggie; Michael C.	Valencia	CA	N/A	N/A
O'Brien; Michael R.	Santa Monica	CA	N/A	N/A

US-CL-CURRENT: 705/14; 235/385, 235/487, 705/16, 902/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-----------	-------

☐ 3. Document ID: US 3656178 A

L25: Entry 3 of 4

File: USPT

Apr 11, 1972

US-PAT-NO: 3656178

DOCUMENT-IDENTIFIER: US 3656178 A

TITLE: DATA COMPRESSION AND DECOMPRESSION SYSTEM

DATE-ISSUED: April 11, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
De Maine; Paul A. D.	State College	PA	N/A	N/A
Springer; Gordon K.	State College	PA	N/A	N/A

US-CL-CURRENT: 341/87

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 4. Document ID: AU 200013152 A, WO 200023919 A1

L25: Entry 4 of 4

File: DWPI

May 8, 2000

DERWENT-ACC-NO: 2000-364943

DERWENT-WEEK: 200037

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Extensible macro language providing method for use in computer language processors, involves retrieving code associated with keywords representing new macro command, which is then executed

INVENTOR: DEFFLER, T A; MINTZ, E

PRIORITY-DATA: 1998US-0104682 (October 16, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 200013152 A	May 8, 2000	N/A	000	G06F017/30
WO 200023919 A1	April 27, 2000	E	031	G06F017/30

INT-CL (IPC): G06F 17/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	----------	-------

[Generate Collection](#)

Terms	Documents
117 and retriev\$ near code	4

[Display](#)

40

Documents, starting with Document:

4

Display Format:[CIT](#)[Change Format](#)

WEST

Generate Collection

①

L21: Entry 4 of 17

File: USPT

Aug 15, 2000

US-PAT-NO: 6105043

DOCUMENT-IDENTIFIER: US 6105043 A

TITLE: Creating macro language files for executing structured query language (SQL) queries in a relational database via a network

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francisco; Grace	San Jose	CA	N/A	N/A
Goldberg; Michael Scott	Incline Village	NV	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A		02

APPL-NO: 8/ 991323

DATE FILED: December 16, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to co-pending and commonly-assigned patent application Ser. No. 08/491,742, filed Jun. 19, 1995, by Tam Minh Nguyen and Venkatachary Srinivasan, entitled "ACCESSING A RELATIONAL DATABASE OVER THE INTERNET USING MACRO LANGUAGE FILES," which application is incorporated by reference herein.

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/513; 707/100, 707/500, 707/526, 707/2

US-CL-CURRENT: 707/513; 707/100, 707/2, 707/500, 707/526

FIELD-OF-SEARCH: 707/4, 707/104, 707/103, 707/513, 707/2, 395/200.33, 345/326

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5255305</u>	October 1993	Sattar	379/34
<input type="checkbox"/>	<u>5715453</u>	February 1998	Stewart	707/104
<input type="checkbox"/>	<u>5737592</u>	April 1998	Nguyen et al.	707/4
<input type="checkbox"/>	<u>5748188</u>	May 1998	Hu et al.	345/326
<input type="checkbox"/>	<u>5793966</u>	August 1998	Amstein et al.	395/200.33
<input type="checkbox"/>	<u>5913029</u>	June 1999	Shostak	345/357

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Colbert; Ella

ATTY-AGENT-FIRM: Kurdirka & Jobse, LLP

ABSTRACT:

A method, apparatus, and article of manufacture for creating macro language files for executing SQL queries in a relational database management system via the World Wide Web of the Internet. In accordance with the present invention, Web users can request information from RDBMS software via HTML input forms, which request is then used to create an SQL statement for execution by the RDBMS software. The results output by the RDBMS software are themselves transformed into HTML format for presentation to the Web user.

25 Claims, 14 Drawing figures

WEST

Generate Collection

(2)

L20: Entry 11 of 64

File: USPT

Jul 4, 2000

US-PAT-NO: 6085120

DOCUMENT-IDENTIFIER: US 6085120 A

TITLE: Data system processing and method for creating application extension

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwerdtfeger; Richard Scott	Round Rock	TX	N/A	N/A
Thatcher; James Winthrop	Austin	TX	N/A	N/A
Weiss; Lawrence Frank	Round Rock	TX	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 8/ 971256

DATE FILED: November 17, 1997

INT-CL: [7] G06F 17/00

US-CL-ISSUED: 700/90; 713/100

US-CL-CURRENT: 700/90; 713/100

FIELD-OF-SEARCH: 700/86, 700/87, 700/90, 713/100, 713/1, 713/2

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5247678	September 1993	Littleton	395/700
<input type="checkbox"/> 5252951	October 1993	Tannenbaum et al.	345/156
<input type="checkbox"/> 5442376	August 1995	Tannenbaum et al.	345/156
<input type="checkbox"/> 5568487	October 1996	Sitbon et al.	370/466
<input type="checkbox"/> 5628005	May 1997	Hurvig	707/8
<input type="checkbox"/> 5819097	October 1998	Brooks et al.	395/705
<input type="checkbox"/> 5854750	December 1998	Phillips et al.	700/216
<input type="checkbox"/> 5884078	March 1999	Faustini	395/701
<input type="checkbox"/> 5928360	July 1999	Masuoka et al.	713/2
<input type="checkbox"/> 5938766	August 1999	Anderson et al.	713/100

OTHER PUBLICATIONS

Andrew Wooldridge et al., Special Edition, Using JavaScript Second Edition, published by Que Corporation, copyright 1997, pp. 16, 318-345, 366-370, 384-407.
Jill Ellsworth et al., The Internet 1997 Unleashed, published by Sams.net Publishing, copyright 1997, pp. 500, 541, 633, 635, 662-682, 693-694, 756-760, 795, 800-803, 931-933.

J.M. Gill, The Design of Man-Machine Interfaces for Use by Visually Disabled People, pp. 1-7, available via the Internet at <http://www.rib.org.uk/wedo/research/sru/japan.html>, attached copy printed Jul. 29, 1997.

IBM Special Needs Home Page, available via the Internet at <http://www.austin.ibm.com/sns/index.html>, 12 pp., attached copy printed Oct. 7, 1997.

William D. Walker et al., Making the X Window System Accessible to People with Disabilities, pp. 1-10, Oct. 8, 1997.

IBM Special Needs, IBM Screen Magnifier/2, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

IBM Special Needs, IBM AccessDOS, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

IBM Special Needs, Braille/2 for IBM Screen Reader/2, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

Earl Johnson et al., Making the X Window System More Accessible, the DACX Project, pp. 1-10, Presentation at California State University Northridge (CSUN) Conference, Mar. 18, 1994.

Speech Viewer III Announcement, IBM Announces Speechviewer III for Windows for Interactive Speech Therapy, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

IBM Special Needs, IBM Screen Readers, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

IBM Special Needs, IBM Screen Magnifier/2 Update, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

IBM Special Needs, Software Accessibility, available via the Internet at <http://www.ibm.com>, pp. 1-2, attached copy printed Oct. 8, 1997.

IBM Special Needs FTP Service, available via the Internet at <ftp://software.ibm.com/sns>, 1 page, attached copy printed Oct. 8, 1997.

Telecommunications and Persons with Disabilities: Building the Framework, The Second Report of The Blue Ribbon Panel on National Telecommunications Policy, pp. 1-34, attached copy printed Oct. 8, 1997.

Ellen Francik, Telephone Interfaces: Universal Design Filters, Version 2, Jun. 6, 1996, pp. 1-13, Human Factors Engineering, Pacific Bell, Jun. 6, 1996.

Apple Macintosh Software Toolkit, Mouse Cursor Enhancers (Visual), available via the Internet, pp. 1-2, attached copy printed Oct. 8, 1997.

Java Home Page, java.sun.com--The Source for Java, Sun Microsystems, Inc., Copyright 1995-97, available via the Internet, pp. 1-3, attached copy printed Oct. 9, 1997.

Gamelan, java.developer.com/EarthWeb, Copyright 1997, available via the Internet, pp. 1-2, attached copy printed Oct. 9, 1997.

Java Home Page, The Java Virtual Machine Specification, available via the Internet, 1 page, attached copy printed Oct. 14, 1997.

General Input Device Emulating Interface (GIDEI) Proposal, Draft Version 2.0, Copyright 1994, pp. 1-38.

ART-UNIT: 276

PRIMARY-EXAMINER: Gordon; Paul P.

ASSISTANT-EXAMINER: Cabrera; Zoila

ATTY-AGENT-FIRM: Winstead Sechrest & Minick P.C. LaBaw; Jeffrey S.

ABSTRACT:

A data processing system and method provide an extension to an application that is programmable and is written in the native language of the application. During operation and execution of the data processing system and method, the application extension is loaded when an associated Java Virtual Machine is initialized.

39 Claims, 4 Drawing figures

WEST

Generate Collection

③

L22: Entry 1 of 11

File: USPT

Oct 24, 2000

US-PAT-NO: 6138098

DOCUMENT-IDENTIFIER: US 6138098 A

TITLE: Command parsing and rewrite system

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shieber; Stuart M.	Cambridge	MA	N/A	N/A
Armstrong; John	Cambridge	MA	N/A	N/A
Baptista; Rafael Jose	Arlington	MA	N/A	N/A
Bentz; Bryan A.	Stonington	CT	N/A	N/A
Ganong, III; William F.	Brookline	MA	N/A	N/A
Selesky; Donald Bryant	Westford	MA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Lernout & Hauspie Speech Products N.V.	Ypres	N/A	N/A	BEX	03

APPL-NO: 8/ 885631

DATE FILED: June 30, 1997

INT-CL: [7] G10L 15/18, G10L 15/22

US-CL-ISSUED: 704/257; 704/275

US-CL-CURRENT: 704/257; 704/275

FIELD-OF-SEARCH: 704/8, 704/9, 704/257, 704/270, 704/275, 395/703, 395/705, 395/707, 395/709, 395/708

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4829423</u>	May 1989	Tennant et al.	704/8
<input type="checkbox"/> <u>4984178</u>	January 1991	Hemphill et al.	704/255
<input type="checkbox"/> <u>5349526</u>	September 1994	Potts, Sr. et al.	364/419.1
<input type="checkbox"/> <u>5475588</u>	December 1995	Schabes et al.	704/9
<input type="checkbox"/> <u>5640576</u>	June 1997	Kobayashi et al.	395/759
<input type="checkbox"/> <u>5805775</u>	September 1998	Eberman et al.	704/257
<input type="checkbox"/> <u>5819210</u>	October 1998	Maxwell, III et al.	704/9
<input type="checkbox"/> <u>5835893</u>	November 1998	Usioda	704/9

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO

PUBN-DATE

COUNTRY

US-CL

0 394 628

February 1990

EPX

OTHER PUBLICATIONS

Parr, Terence J., "An Overview of Sorcerer: A Simple Tree-Parser Generator", Int'l Conference on Compiler Construction; Edinburg, Scotland; Apr. 1994.
Unknown Author, The Free Compiler list -BNF Subset: "Description of Sorcerer: A Simple Tree Parser Generator", Web Document <http://archive.inesc.pt/free-dir/free-S-1.300.html>
Posting date (estimated): May 16, 1994.
Roe, David B., et al, "A Spoken Language Translator for Restricted-Domain Context-Free Languages", Speech Communication II, (1992), pp. 311-319.
Wellekens, C. J., et al, "Decodage Acoustique et Analyse Linguistique en Reconnaissance De La Parole", E Revenue HF, vol. 13, No. 5 (1985).
Zue, Victor, et al, "The Voyager Speech Understanding System: Preliminary Development and Evaluation", IEEE, (1990), pp. 73-76.

ART-UNIT: 271

PRIMARY-EXAMINER: Dorvil; Richemond

ASSISTANT-EXAMINER: Lerner; Martin

ATTY-AGENT-FIRM: Bromberg & Sunstein LLP

ABSTRACT:

A system and method of allowing a user to control a computer application with spoken commands, include the steps of processing the spoken commands with a Speech Recognition application into candidate word phrases, and parsing at least one candidate word phrase with a Context Free Grammar (CFG) parser, into a parse tree. A plurality of predefined rewrite rules grouped into a plurality of phases applied are to the parse tree, for rewriting the parse tree. Each of the plurality of rewrite rules includes a pattern matching portion, for matching at least a part of the parse tree, and a rewrite component, for rewriting the matched part. A command string is produced by traversing each terminal node of the modified parse tree. The command string is sent to an interpreter application or directly to the computer application. Possible applications include word processing and other voice-entry systems.

23 Claims, 15 Drawing figures

WEST

Generate Collection

L20: Entry 43 of 64

File: USPT

Jun 27, 1995

US-PAT-NO: 5428792

DOCUMENT-IDENTIFIER: US 5428792 A

TITLE: System for producing language neutral objects and generating an interface between the objects and multiple computer languages

DATE-ISSUED: June 27, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conner; Mike H.	Austin	TX	N/A	N/A
Martin; Andrew R.	Austin	TX	N/A	N/A
Raper; Larry K.	Austin	TX	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A		02

APPL-NO: 8/ 329798

DATE FILED: October 26, 1994

PARENT-CASE:

This is a continuation of application Ser. No. 07/805,668 filed Dec. 12, 1991 now abandoned. Copending applications include U.S. Pat. No. 5,339,438, "Version Independence for Object Oriented Programs", U.S. Pat. No. 5,361,350, "Object Oriented Method Management System and Software For Managing Class Method Names in a Computer System", application Ser. No. 08/299,230, now allowed, which is a continuation of Ser. No. 07/805,777, now abandoned, and Ser. No. 07/805,778 now allowed, all the above applications were filed on the same date as the current application.

INT-CL: [6] G06F 9/45, G06F 9/40

US-CL-ISSUED: 395/700; 395/600, 364/974.5, 364/DIG.2

US-CL-CURRENT: 717/8; 717/10

FIELD-OF-SEARCH: 364/900, 395/600

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4558413</u>	December 1985	Schmidt et al.	395/600
<input type="checkbox"/>	<u>4667290</u>	May 1987	Goss et al.	364/300
<input type="checkbox"/>	<u>4672532</u>	June 1987	JongeVos	395/600
<input type="checkbox"/>	<u>4734854</u>	March 1988	Afshar	395/700
<input type="checkbox"/>	<u>4791558</u>	December 1988	Chaitin et al.	395/500
<input type="checkbox"/>	<u>4885717</u>	December 1989	Beck et al.	395/775
<input type="checkbox"/>	<u>4953080</u>	August 1990	Dysart et al.	395/600
<input type="checkbox"/>	<u>4989132</u>	January 1991	Mellender et al.	395/700
<input type="checkbox"/>	<u>5041992</u>	August 1991	Cunningham et al.	395/135
<input type="checkbox"/>	<u>5111413</u>	May 1992	Lazansky et al.	364/578
<input type="checkbox"/>	<u>5230049</u>	July 1993	Chang et al.	395/700
<input type="checkbox"/>	<u>5247681</u>	September 1994	Janis et al.	395/700

OTHER PUBLICATIONS

Finlayson et al., "Vanguard: A Protocol Suite and OS Kernel for Distributed Object-Oriented Environments", 11-12 Oct. 1990, pp. 42-44, IEEE Workshop On Experimental Distributed Systems.

Koschmann et al., "Bridging the Gap Between Object-Oriented and Logic Programming" Jul. 1988, pp. 36-42 IEEE Software vol: 5 Iss: 4.

Tjaden et al, "Integrated Network Management for Real-Time Operations," Mar. 1991, pp. 10-15 IEEE Network Magazine.

Borland International Inc. Turbo C++Getting Started 1990 p. 138, Scotts Valley Calif.

Fenlayson et al., "Object-Oriented Communication and Structuring in Vanguard", 17-18 Oct. 1991, pp. 112-113, IEEE Comp. Soc. Press.

Ege, et al. "Design and Implementation of Gordion, an Object Based Systems", 1987, pp. 226-234, IEEE Comput. Soc. Press.

Microprocessing and Microprogramming, vol. 24, No. 1-5, Aug. 1988, Amsterdam, "DEOS-A Dynamically Extendible Object-Oriented System", S. T. Krolak et al, pp. 241-248.

OOPSLA '89, Conference Proceedings, Special Issue of Sigplan Notices, vol. 24, No. 10, Oct. 1989, "Good News, Bad News: Experience Building a Software Development Environment Using the Object-Oriented Paradigm", W. H. Harrison et al, pp. 85-94.

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Choules; Jack M.

ATTY-AGENT-FIRM: Walker; Mark S. Stephens; L. Keith

ABSTRACT:

A method, system and program for redefining language dependent object definitions as a neutral set of information from which object support for any language, including support between languages, is disclosed. The information is parsed and compiled to generate a bindings file which is input along with method information to the target language compiler to create an object file. The object file is thereafter link edited to create executable programs. Target languages include C, Fortran, C++, COBOL or any other compiled language whether or not the particular language has object programming support. Messages are displayed on a display to aid a user.

3 Claims, 15 Drawing figures

WEST

Generate Collection

L21: Entry 2 of 17

File: USPT

Feb 20, 2001

US-PAT-NO: 6192282

DOCUMENT-IDENTIFIER: US 6192282 B1

TITLE: Method and apparatus for improved building automation

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Marjorie L.	Garland	TX	N/A	N/A
Smith; Mark E.	Garland	TX	N/A	N/A
Gelling; Richard R.	Rowlett	TX	N/A	N/A
Cogbill; Michael L.	Dallas	TX	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Intelihome, Inc.	Dallas	TX	N/A	N/A	02

APPL-NO: 8/ 941794

DATE FILED: September 30, 1997

PARENT-CASE:

1. CROSS-REFERENCE TO RELATED APPLICATIONS This application claims the benefit of U.S. Provisional Patent Application Ser. No. 60/028,234; filed Oct. 1, 1996, entitled Method and Apparatus for Improved Building Automation; and U.S. Provisional Patent Application Ser. No. 60/028,168; filed Oct. 11, 1996, entitled Method and Apparatus for Improved Building Automation.

INT-CL: [7] G05B 11/01

US-CL-ISSUED: 700/19; 700/20, 700/17, 700/286, 700/287, 340/825.06, 340/825.52, 340/825.69, 340/825.72

US-CL-CURRENT: 700/19; 340/825.52, 340/825.69, 340/825.72, 700/17, 700/20, 700/286, 700/287

FIELD-OF-SEARCH: 700/2, 700/3, 700/9, 700/10-20, 700/17, 700/83, 700/86-87, 700/296-300, 700/280, 700/267, 340/825.06, 340/825.52, 340/825.69, 340/825.72, 340/310.01

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

<input type="checkbox"/>	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5086385</u>	February 1992	Launey et al.	700/83
<input type="checkbox"/>	<u>5128855</u>	July 1992	Hilber et al.	700/3
<input type="checkbox"/>	<u>5289365</u>	February 1994	Caldwell et al.	700/9
<input type="checkbox"/>	<u>5557545</u>	September 1996	Loffel et al.	700/9
<input type="checkbox"/>	<u>5706191</u>	January 1998	Bassett et al.	700/9
<input type="checkbox"/>	<u>5761083</u>	June 1998	Brown et al.	700/16
<input type="checkbox"/>	<u>5801940</u>	September 1998	Russ et al.	700/9
<input type="checkbox"/>	<u>5815086</u>	September 1998	Ivie et al.	340/825.75
<input type="checkbox"/>	<u>5924486</u>	July 1999	Ehlers et al.	165/238

ART-UNIT: 276

PRIMARY-EXAMINER: Gordon; Paul P.

, ASSISTANT-EXAMINER: Patel; Ramesh

ATTY-AGENT-FIRM: Hunn; Melvin A.

ABSTRACT:

An improved building automation system is provided which is modular in design thus minimizing the amount of instruction necessary to affect control of a particular building system. A relatively small set of interprocess control commands define an interprocess control protocol which is utilized in relatively high level scripts and control applications. The improved building automation system operates to translate control instructions in one particular control protocol to control instructions in a second control protocol. A text parsing program routes interprocess communication commands between modular communication programs to affect control over the automated building systems. The text parsing program includes executable instructions which allow for conditional communication of interprocess control commands depending upon system events.

75 Claims, 102 Drawing figures

WEST

Generate Collection

L21: Entry 5 of 17

File: USPT

May 16, 2000

US-PAT-NO: 6063128

DOCUMENT-IDENTIFIER: US 6063128 A

TITLE: Object-oriented computerized modeling system

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bentley; Keith	Glenmore	PA	N/A	N/A
Wilson; Samuel	Wilmington	DE	N/A	N/A
Lutz; Earlin	West Chester	PA	N/A	N/A
Bartlett; James	Elverson	PA	N/A	N/A
Gooding; John	Spring City	PA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bentley Systems, Incorporated	Exton	PA	N/A	N/A	02

APPL-NO: 8/ 966888

DATE FILED: November 10, 1997

PARENT-CASE:

This is a division of application Ser. No. 08/612,622, filed Mar. 6, 1996, now U.S. Pat. No. 5,815,415. This application claims benefit of provisional application 60/010,234 filed Jan. 19, 1996. This application claims benefit of provisional application 60/011,285, filed Feb. 7, 1996.

INT-CL: [7] G06G 7/48, G06F 17/50

US-CL-ISSUED: 703/6; 703/7, 703/1, 706/919, 345/964

US-CL-CURRENT: 703/6; 345/964, 703/1, 703/7, 706/919

FIELD-OF-SEARCH: 395/500.34, 395/500.27, 395/683, 395/500.28, 395/701, 395/500.01, 395/964, 707/103, 364/474.24, 706/919

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4809170	February 1989	Leblang et al.	395/705
<input type="checkbox"/> 4951192	August 1990	Chase, Jr. et al.	395/706
<input type="checkbox"/> 5339435	August 1994	Lubkin et al.	395/500.47
<input type="checkbox"/> 5347632	September 1994	Filepp et al.	709/202
<input type="checkbox"/> 5437027	July 1995	Bannon et al.	707/103
<input type="checkbox"/> 5546595	August 1996	Norman et al.	395/500.42
<input type="checkbox"/> 5625580	April 1997	Read et al.	395/500.92
<input type="checkbox"/> 5634010	May 1997	Ciscon et al.	709/223
<input type="checkbox"/> 5815415	September 1998	Bentley et al.	395/500.24
<input type="checkbox"/> 5911074	June 1999	Leprince et al.	395/701
<input type="checkbox"/> 5987242	November 1999	Bentley et al.	395/500.34

OTHER PUBLICATIONS

Dasgupta, P.; LeBalnc, R. J., Jr.; Ahamad, M.; Ramachandran, U.; "The Clouds Distrubted Operatin System", Computer, vol. 24, Issue 11, pp. 34-44, Nov. 1991.

Kramer, D; Joy, B.; Spenoff, D.; "The Java.TM. Platform: A White Paper", JavaSoft, Sun Microsystems Inc., Mountain View, CA, May 1996.

Mitchell, J. G.; Gibbons, J. J.; Hamilton, G.; Kessler, P.B. Khalidi, Y. A.; Kougiouris, P.; Madany, P.W.; Nelson, M. N.; Powell, M. L.; Radia, S. R.; "An Overview of the Spring System", Digest of Papers-COMPCON Spring '94, pp. 122-131, Apr. 1994.

Gunaseelan, L.; LeBlanc, R. J., Jr.; "Distributed Eiffel: A Language for Programming Multi-granulr Distributed Objects on the Clouds Operating System", Proceedings of the 1992 International Conference on Computer Languages, pp. 331-340, Apr. 1992.

Sommer, J.; "The DaCapo Project: Distributed, Active, Communicating, Persistent Objects", Proceedings of the Second International Workshop on Object Oriented in Operating Systems, pp. 129-132, Sep. 1992.

Ben-Shaul, I.; Cohen, A.; Holder, O.; Lavva, B.; "HADAS: A Network Centric Framework for Interoperability Programming", Proceedings of the Second IFCIS International Conference on Cooperative Information Systems, pp. 120-129, Jul. 1997.

Bottger et al., "An Object-Oriented Model for Specification, Prototyping, Implementation and Reuse", Proceedings of the Design, Automation and Test in Europe, 1998, pp. 303-310, Feb. 1998.

MicroStation J Whitepaper, downloaded from the internet at <http://www.bentley.com/products/mstation/j/msjwhite.pdf>.

MicroStation J News Release, downloaded from the internet at <http://www.bentley.com/news/headline/msjships.htm>.

ART-UNIT: 273

PRIMARY-EXAMINER: Teska; Kevin J.

ASSISTANT-EXAMINER: Sergeant; Douglas W.

ATTY-AGENT-FIRM: Akin, Gump, Strauss, Hauer & Feld, L.L.P.

ABSTRACT:

A computer system for modeling is disclosed, where the computer system has a storage device, first and second platforms, a portable persistent model, and first and second platform-dependent computerized modeling systems (CMS). Each platform is interfaced to the storage device and provides system-dependent services. The first platform has a first type of operating system and a first type of computer hardware including a first memory, and the second platform has a second type of operating system and a second type of computer hardware including a second memory. The model resides in the storage device in a platform-independent format and includes persistent component objects. The first CMS resides in the first platform memory and the second platform-dependent CMS resides in the second platform memory. Each CMS provides CMS services including retrieving the model from the storage device, manipulating the model, changing the model by adding and removing persistent objects, and persistently saving the model to the storage device. Each CMS includes a

static kernel and a dynamic framework. The kernel executes on the platform and interfaces to the operating system and the computer hardware, and provides services necessary to load and execute CMS services and to interface to the platform services. The framework executes on the platform and interfaces to the kernel, provides a platform-independent

.. , visual interface between the CMS and a CMS user, and employs the services of the kernel.

24 Claims, 26 Drawing figures